

(FILE 'USPAT' ENTERED AT 08:29:26 ON 31 JUL 96)

L1 954 S TELECONFERENC### OR ((VIDEO OR TELE) (A) CONFERENC###) O  
R V  
L2 107 S AV (3A) SWITCH?  
L3 131 S CODEC# AND L1  
L4 1 S L2 AND L3  
L5 1 S L2 AND L1  
L6 16942 S VIDEO (P) SWITCH###  
L7 336 S MOSAIC AND L6  
L8 3 S L1 AND L7

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8. 5,539,452, Jul. 23, 1996, Video telephone system; Daniel R. Bush, et al., 348/17, 14 [IMAGE AVAILABLE]

2. 5,541,640, Jul. 30, 1996, Videophone for simultaneous audio and video communication via a standard telephone line; Craig R. Larson, 348/19; 379/96 [IMAGE AVAILABLE]

1. 5,402,171, Mar. 28, 1995, Electronic still camera with improved picture resolution by image shifting in a parallelogram arrangement; Yoshitomo Tagami, et al., 348/219; 250/208.1; 348/279, 280; 455/344 [IMAGE AVAILABLE]

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DETD(192)

Further, . . . a communication interface 309 is provided as shown in FIG. 90, this camera system can be used in a TV \*\*conference\*\* system and a TV telephone system, which outputs a \*\*video\*\* image on a TV monitor 314 at a remote site via a \*\*codec\*\* 310, a communication channel 311, a \*\*codec\*\* 312, and a communication interface 313.

99. 4,686,698, Aug. 11, 1987, Workstation for interfacing with a video \*\*conferencing\*\* network; E. Neal Tompkins, et al., 348/230 [IMAGE AVAILABLE]

95. 4,763,317, Aug. 9, 1988, Digital communication network architecture for providing universal information services; Harvey R. Lehman, et al., 370/58.1, 60 [IMAGE AVAILABLE]

96. 4,716,585, Dec. 29, 1987, Gain switched audio \*\*conferencing\*\* network; E. Neil Tompkins, et al., 379/202; 370/62; 379/389 [IMAGE AVAILABLE]

97. 4,710,917, Dec. 1, 1987, Video \*\*conferencing\*\* network; E. Neal Tompkins, et al., 370/62; 348/15; 379/202; 395/200.04, 200.12, 311 [IMAGE AVAILABLE]

98. 4,694,351, Sep. 15, 1987, Picture signal processing apparatus; Koozoo Nakamura, et al., 358/426, 464 [IMAGE AVAILABLE]

L2: 1 of 103

TITLE: Call management in a collaborative working network

US PAT NO: 5,539,886 DATE ISSUED: Jul. 23, 1996

[IMAGE AVAILABLE]

APPL-NO: 08/256,209 DATE FILED: Jun. 27, 1994

FRN-PR. NO: 9223520 FRN FILED: Nov. 10, 1992

FRN-PR. CO: United Kingdom

PCT-NO: PCT/GB93/02314 PCT-FILED: Nov. 10, 1993

371-DATE: Jun. 27, 1994

102(E)-DATE: Jun. 27, 1994

PCT-PUB-NO: WO94/11813 PCT-PUB-DATE: May 26, 1994

4. 5,537,408, Jul. 16, 1996, apparatus and method for segmentation and time synchronization of the transmission of multimedia data; Mark W. Branstad, et al., 370/79; 348/518; 370/94.2, 100.1 [IMAGE AVAILABLE]

5. 5,534,914, Jul. 9, 1996, Videoconferencing system; Daniel P. Flohr, et al., 348/15, 14; 379/93, 202 [IMAGE AVAILABLE]

7. 5,530,472, Jun. 25, 1996, Video \*\*conference\*\* system including a non-reserved video \*\*conference\*\* capability; Susan P. Bregman, et al., 348/15; 370/62; 379/94, 202 [IMAGE AVAILABLE]

16. 5,506,954, Apr. 9, 1996, PC-based \*\*conferencing\*\* system; Taymoor Arshi, et al., 395/162; 348/15; 364/514A; 370/62; 379/202 [IMAGE AVAILABLE]

19. 5,495,285, Feb. 27, 1996, Communication system for starting teleconference between two multimedia stations over network; Susumu Fujioka, 348/15; 370/85.6; 379/96, 202 [IMAGE AVAILABLE]

20. 5,495,284, Feb. 27, 1996, Scheduling and processing system for telephone video communication; Ronald A. Katz, 348/15; 379/92, 96 [IMAGE AVAILABLE]

22. 5,490,247, Feb. 6, 1996, Video subsystem for computer-based

**\*\*conferencing\*\*** system; Peter Tung, et al., 395/162, 200.04 [IMAGE AVAILABLE]

23. 5,489,938, Feb. 6, 1996, Television **\*\*conference\*\*** apparatus including a material picturing device; Kyuma Maruyama, et al., 348/15; 49/14; 312/7.2, 223.3, 316; 348/836 [IMAGE AVAILABLE]  
AVAILABLE]

28. 5,477,546, Dec. 19, 1995, Teleconference terminal equipment and teleconference module; Yoji Shibata, et al., 370/62; 348/15 [IMAGE AVAILABLE]

33. 5,453,780, Sep. 26, 1995, Continuous presence video signal combiner; Ting-Chung Chen, et al., 348/15, 14, 16; 375/356 [IMAGE AVAILABLE]

36. 5,434,913, Jul. 18, 1995, Audio subsystem for computer-based **\*\*conferencing\*\*** system; Peter Tung, et al., 379/202; 395/162, 800 [IMAGE AVAILABLE]

37. 5,434,912, Jul. 18, 1995, Audio processing system for point-to-point and multipoint teleconferencing; David G. Boyer, et al., 379/202, 390, 392, 406 [IMAGE AVAILABLE]

40. 5,408,274, Apr. 18, 1995, Method and apparatus for compositing compressed video data; Shih-Fu Chang, et al., 348/700, 407, 584, 699 [IMAGE AVAILABLE]

47. 5,382,972, Jan. 17, 1995, Video **\*\*conferencing\*\*** system for courtroom and other applications; Deno Kannes, 348/15, 14, 16 [IMAGE

48. 5,374,952, Dec. 20, 1994, Videoconferencing system; Daniel P. Flohr, 348/12, 15 [IMAGE AVAILABLE]

50. 5,367,522, Nov. 22, 1994, Multimedia communicating apparatus; Masatoshi Otani, 370/84, 110.1, 112, 118 [IMAGE AVAILABLE]

52. 5,365,264, Nov. 15, 1994, Video network system with computer LAN; Akino Inoue, et al., 348/70, 12; 370/71; 455/5.1, 6.1 [IMAGE AVAILABLE]

53. 5,363,378, Nov. 8, 1994, Channel data transmission system; Hans-Dieter Wahl, 370/100.1; 348/15; 370/62, 112; 375/354 [IMAGE AVAILABLE]

55. 5,335,321, Aug. 2, 1994, Scalable multimedia platform architecture; Kevin Harney, et al., 395/162; 345/204; 395/163 [IMAGE AVAILABLE]

59. 5,315,633, May 24, 1994, Digital video switch for video teleconferencing; John J. Champa, 348/16, 15; 379/202 [IMAGE AVAILABLE]

66. 5,272,526, Dec. 21, 1993, Television \*\*conference\*\* system; Hajime Yoneta, et al., 348/15; 379/204 [IMAGE AVAILABLE]

67. 5,271,057, Dec. 14, 1993, Audio processing system for teleconferencing system; Eric J. Addeo, et al., 379/202, 390, 392, 406 [IMAGE AVAILABLE]

80. 5,099,510, Mar. 24, 1992, Teleconferencing with bridge partitioning and other features; Robert J. Blinken, Jr., et al., 379/202, 204 [IMAGE AVAILABLE]

82. 5,014,267, May 7, 1991, Video \*\*conferencing\*\* network; E. Neal Tompkins, et al., 370/62; 395/200.04 [IMAGE AVAILABLE]

83. 4,995,071, Feb. 19, 1991, Video \*\*conference\*\* installation; Jens Weber, et al., 348/15 [IMAGE AVAILABLE]

84. 4,987,492, Jan. 22, 1991, User interface control for communication system; Robert A. Stults, et al., 348/15 [IMAGE AVAILABLE]

88. 4,893,326, Jan. 9, 1990, Video-telephone communications system; Joe W. Duran, et al., 348/17; 379/96; 455/5.1 [IMAGE AVAILABLE]

89. 4,847,829, Jul. 11, 1989, Video \*\*conferencing\*\* network; E. Neil Tompkins, et al., 370/62 [IMAGE AVAILABLE]

95. 4,763,317, Aug. 9, 1988, Digital communication network architecture for providing universal information services; Harvey R. Lehman, et al., 370/58.1, 60 [IMAGE AVAILABLE]

99. 4,686,698, Aug. 11, 1987, Workstation for interfacing with a video \*\*conferencing\*\* network; E. Neal Tompkins, et al., 348/230 [IMAGE AVAILABLE]

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(FILE 'USPAT' ENTERED AT 07:39:24 ON 02 AUG 96)

L1 259 S VIDEO (P) CODEC#  
L2 103 S CONFERENC? AND L1  
L3 4400 S MOSAIC  
L4 1 S L3 AND L2

10. 04-268859, Sep. 24, 1992, \*\*VIDEO\*\* TELEPHONE CONNECTION CONTROL EQUIPMENT; HARUHIKO KOJIMA, et al., H04M 3/42; H04M 3/56; H04N 7/14; H04N 7/173

04-268859

L8: 10 of 14

ABSTRACT:

PURPOSE: To realize a \*\*video\*\* telephone system in which plural picture input/output devices do not need to have \*\*CODEC\*\* and plural picture input/output terminals are given economically by permitting a television telephone connection controller to have \*\*CODEC\*\*.

CONSTITUTION: A line wire interface means 101 which multiplexes or separates a B channel information signal and a D channel control signal regulated by the user/network interface of ISDN and transmitted through a line wire, and an extension interface means 104 which multiplexes or separates an analog information signal and a control signal transmitted through an extension are provided. \*\*CODEC\*\* 103 which exists between the interface means and A/D- converts, D/A-converts the B channel information signal, and which \*\*compresses\*\*/ expands data, and a control means 105 controlling the whole including \*\*CODEC\*\* 103 by exchanging the control signal through the line wire interface means 101 and the extension interface means 104 are provided.

1 S L4 AND L1

FILE 'JPOABS' ENTERED AT 10:54:09 ON 02 AUG 96

L8 14 S L3

FILE 'USPAT' ENTERED AT 11:14:28 ON 02 AUG 96

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L3: 9 of 26

TITLE: Telecommunication system for transmitting full motion video

US PAT NO: 5,283,637

DATE ISSUED: Feb. 1, 1994

[IMAGE AVAILABLE]

APPL-NO: 07/570,297

DATE FILED: Aug. 20, 1990

DETDESC:

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(FILE 'USPAT' ENTERED AT 13:53:39 ON 02 AUG 95)

L1 4005 S MOSAIC  
L2 305 S VIDEO (P) L1  
L3 432 S TELECONFERENC###  
L4 1 S L2 AND L3

=> d 1

1. 4,743,959, May 10, 1988, High resolution color video image acquisition and compression system; Jeffrey E. Frederiksen, 348/396, 421 [IMAGE AVAILABLE]

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=> s etherphone

L1 3 ETHERPHONE

=> d 1-3

1. 5,422,883, Jun. 6, 1995, Call setup and channel allocation for a multi-media network bus; Jon F. Hauris, et al., 370/62, 85.7, 95.1, 110.1; 379/204, 205 [IMAGE AVAILABLE]

2. 5,374,952, Dec. 20, 1994, Videoconferencing system; Daniel P. Flohr, 348/12, 15 [IMAGE AVAILABLE]

3. 4,914,586, Apr. 3, 1990, Garbage collector for hypermedia systems; Daniel C. Swinehart, et al., 395/600; 364/222.82, 225.6, 238.1, 239.9, 240.8, 240.9, 242.5, 242.94, 242.95, 260.4, 260.81, 260.9, 281.1, 282.1, 282.2, 283.1, 284, 284.4, DIG.1; 379/88, 94, 96 [IMAGE AVAILABLE]

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(FILE 'USPAT' ENTERED AT 08:29:26 ON 31 JUL 96)

L1 954 S TELECONFERENC### OR ((VIDEO OR TELE) (A) CONFERENC###) O  
R V  
L2 107.S AV (3A) SWITCH?  
L3 131 S CODEC# AND L1  
L4 1 S L2 AND L3

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IEEE/IEE Publications Ondisc Jan 1990 - Aug 1996

Search Options:

Search for both singular and plurals: YES

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Display intermediate result sets : NO

Num	Search	Hits
#1	au(crawford)	108
#2	au(crawford) and video	1
#3	lvx	0
#4	au(ludwig)	74

DETD(72)

The telecommunication system of the invention provides **\*\*analog\*\*** communication enhancement and capability transmitted over a **\*\*twisted\*\*** **\*\*pair\*\*** of telephone wires. The system can be used for the twin wire transmission of bi-directional **\*\*video\*\***, voice, data, facsimile or telexed inputs and outputs from office to office, floor to floor, within a building or complex. . .

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(FILE 'USPAT' ENTERED AT 13:53:37 ON 30 SEP 96)

L1 2829 S TWISTED PAIR  
L2 154 S VIDEO (P) L1  
L3 26 S ANALOG (P) L2

=> d his

(FILE 'USPAT' ENTERED AT 15:19:31 ON 30 SEP 96)

L1 390 S ROUTING (P) OPTIMIZ?  
L2 9 S VIDEO (P) L1

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6. 5,408,526, Apr. 18, 1995, Conference calling system; James R. McFarland, et al., 379/202, 67, 91, 114, 205, 207 [IMAGE AVAILABLE]

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ABSTRACT:

The initiator of a conference call provides conference requirements such as number and location of parties to be conferenced, time for beginning and end of conference, and telecommunications facilities requirements (e.g., bandwidth requirements for **\*\*video\*\*** and multi-media calls), to a conference **\*\*optimization\*\*** system (COS). The COS compares the requirements with information in a database, including (a) the cost for each of the paths/**\*\*routes\*\*** at the desired time for the conference, (b) available network paths/**\*\*routes\*\***, taking into account the required bandwidth and quality of transmission, and (c) capabilities of the terminal equipment available to the participants. The COS uses a processor such as a microprocessor to identify available network paths/**\*\*routes\*\*** for the conference (advantageously with real time input from telecommunications network operations and maintenance systems), select the most cost effective means for initiating the conference, and



send information, such as an announcement, to the parties involved in the conference, indicative of the **\*\*route\*\***/path selection. The information required for conference initiation may be provided to a network call controller in order to actually set up the conference without further intervention by the participants.